IPFX-D40V-IRW3

4MP Starlight Varifocal Dome Network Camera





- 1/3" 4 Megapixel progressive CMOS
- H.265 & H.264 dual-stream encoding
- Outputs max. 4MP (2688 × 1520)@30 fps
- WDR(120dB), Day/Night(ICR), 3DNR, AWB,
- Intelligent Motion Detect 2.0, Perimeter Protection
- Built-in Mic, 2.7~13.5mm varifocal lens
- Starlight Support, max IR distance: 131ft
- IP67, IK10, PoE, 256GB Micro SD Support

System Overview

The IPFX-D40V-IRW3 is a 4MP vandal-proof dome camera featuring our latest generation of 1/3" CMOS sensors and Starlight support with increased IR illumination up to \sim 197'. Housed in a weatherproof IP67 rated casing, the camera also includes H.265 encoding for optimized storage and AI functions such as Intelligent Motion Detect 2.0 and Perimeter Protection ,which recognizes vehicle and human targets enabling a refined Intelligent search using IC Realtime AI enabled NVRs.

The camera also features a motorized, 2.7mm-13.5mm lens which offers up a 29-104 degree horizontal field of view. The zoom level is fully controllable directly from the camera interface, enabling you to obtain the perfect shot. This makes the camera well suited for exterior applications on commercial as well as residential installations.

Functions

Smart(H.265+ & H.264+)

Deliver high quality video without straining the network, Smart H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265

Intelligent Video Analysis (IVS)

With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as Tripwire analytics, allowing the camera to detect when a predetermined line has been crossed, ideal for business intelligence, workforce optimization, and actionable intelligence.

Starlight

For challenging low-light applications, Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Perimeter Protection

IC Realtime's Perimeter Protection features significantly improve detection accuracy. The benefits of Perimeter Protection include up to a 90% reduction in false alarms. Other advantages include a decrease in pixel count requirement for object detection, which translates into more efficiency with less strain on the system. Perimeter Protection options let you customize tripwires based on the object type and allow intelligent automation within a limited area of access such as pedestrian or vehicle-only zones. The combination of advanced AI analytics and real-time alerts maximizes efficiency & balance of the total systems capacity and resources resulting in greater surveillance system efficiency.

iMD 2.0 (Intelligent Motion Detect)

The AI Machine Learning algorithms in our Intelligent Motion Detection (iMD) recorders & cameras means detection gets more accurate over time. Now, iMD 2.0 provides even better recognition, even fewer false alerts, and it encodes detection metadata in every video frame right from installation. This enables our new Object Search system to quickly locate recorded clips matching your search parameters.

Protection (IP67, wide voltage)

Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications. For environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

Wide voltage: The camera allows ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with unstable voltage.





Technical Specification

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Camera					
Image Sensor		1/2.9" 4 Megapixel CMOS			
Effective Pixels		2688(H) ×1520(V)			
RAM/ROM		512MB/128MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s			
Minimum Illumination		0.005 lux@F1.5 (Color, 30 IRE) 0.0005 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)			
IR Distance		Distance up to 131 ft (40 m)			
IR On/Off Control		Auto / Manual			
IR LEDs		3			
Lens					
Lens Type		Motorized vari-focal			
Mount Type		φ14			
Focal Length		2.7mm~13.5mm			
Max. Aperture		F1.5			
Iris Type		Fixed			
Angle of View		Horizontal: 104°–29°, Vertical: 54°–16°,			
Close Focus Distance		2.6 ft (0.8 m)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	210ft	84 ft	42 ft	21 ft
	Т	688ft	275 ft	137 ft	68 ft
Pan/Tilt/Rotation					
Pan/Tilt/Rotation Range		Horizontal: 0°–360° Vertical: 0°–90° Rotation: 0°–360°			
Video					
Compression		H.265; H.264; H.264H; H.264B; MJPEG			
Smart Codec		Smart H.265+; Smart H.264+			
Al Coding		AI H.265; AI H.264			
Streaming Capability		3 Streams			
Resolution		4M (2688 \times 1520); 3M (2304 \times 1296); 1080p (1920 \times 1080); 1.3M (1280 \times 960); 720p (1280 \times 720); D1 (704 \times 576/704 \times 480); VGA (640 \times 480); CIF (352 \times 288/ 352× 240)			
Frame Rate		Main Stream (2688 × 1520@1–25/30 fps)			
		Sub stream 1: 704×576 @ $(1-25 \text{ fps})/704 \times 480$ @ $(1-30 \text{ fps})$			
		Third Stream 1920 \times 1080 @ (1–25/30 fps)			

CBR/VBR

BLC, HLC

custom

3D DNR

Auto / Manual

H.264: 3 Kbps-8192 Kbps H.265: 3 Kbps-8192 Kbps

Auto/natural/street lamp/outdoor/manual/regional

Electronic Image Stabilization (EIS)

Auto(ICR) / Color / B/W

Motion Detection	Off / On (4 Zone, Rectangle)		
Region of Interest	Off / On (4 Zone)		
Smart IR	Support		
Starlight	Support		
Flip	0%90%180%270° (Support 90%270° with 2688 \times 1520 resolution.)		
Mirror	Off / On		
Privacy Masking	Off / On (4 Area, Rectangle)		
Audio			
Compression	G.711a; G.711Mu; PCM; G.726; G.723		
Network			
Ethernet	RJ-45 (10/100Base-T)		
Protocol	IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP; RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;N TP;Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP		
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade		
Interoperability	ONVIF(Profile S/ G/ T);CGI;P2P		
Streaming Method	Unicast / Multicast		
Max. User Access	20 (Total bandwidth: 64 M)		
Edge Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS		
Web Viewer	IE, Chrome, Firefox, Safari		
Management Software	SmartICRSS, DSS		
Smart Phone	IOS, Android		
Certifications			
Certifications	FCC: 47 CFR FCC Part 15, Subpart B		
Interface			
Video Interface	N/A		
Audio Interface	Built-in Mic, 1 (RCA port) each output/input		
RS485	N/A		
Alarm	1 channel In: 5mA 5VDC, 1 channel Out: 300mA 12VDC		
Electrical			
Power Supply	DC12V, PoE (802.3af)		
Power Consumption	Basic: 2.8 W (12 VDC); 3.6 W (PoE) Max. (WDR + IR intensity + Intelligence): 7.9 W (12 VDC); 9.2 W (PoE)		
Environmental			
Operating Conditions	-22° F ~ +140° F (-30° C ~ +60° C) / Less than 95% RH		
Storage Conditions	-40° F ~ +140° F (-40° C ~ +60° C)		
Ingress Protection	IP67		
Candal protection	IK10		
Construction			
Casing	Metal		
Dimensions	3.7" × Φ4.8" (94 mm × Φ122 mm)		
Net Weight	1.57lb (713 g)		
Gross Weight	2.17lb (986 g)		
3	, 3,		



Bit Rate Control

Bit Rate

Day/Night BLC Mode

White Balance

Gain Control

Noise Reduction

Image Stabilization

Scene Self-adaptation (SSA)



AI Functions

IVS

Tripwire; Intrusion Basic IVS

Perimeter Protection

Tripwire; Intrusion

Capabilities (These functions support the classification and detection of

vehicle and human objects)

Intelligent Motion Detect 2.0

Advanced secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change. Supports Object Search with compatible

Al Search

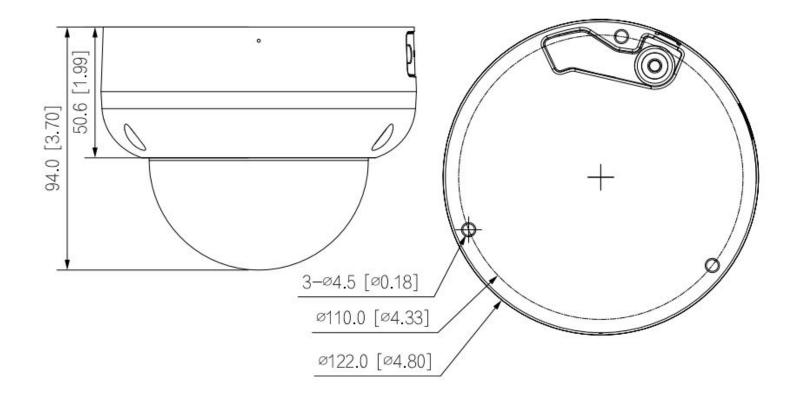
Capabilities

Works together with AI enabled NVRs to perform refined intelligent search, event extraction and merging to event videos Capabilities





Dimensions (mm/in)



Accessories

Included Mount

MNT-JUNCTIONBOX-7

